Amendments To The Claims

1-7.(cancelled)

8.(previously presented) A process for manufacturing a BiMOS microcircuit, comprising:

forming a buried layer of a first semiconductor material;

forming a gate oxide for at least one MOS transistor,

forming a poly-Si layer on the gate oxide;

forming a base of a second semiconductor material;

forming a source and a drain for the MOS transistor of a third semiconductor material; and

forming an emitter of a group III/VI semiconductor on the base, the group III/VI semiconductor selected from the group consisting of GaS, GaSe, GaTe, InS, InSe, InTe, and TIS.

9.(original) The process of claim 8, further comprising: after forming the buried layer, isolating the buried layer into pockets.

10.(original) The process of claim 8, further comprising forming a deep N+ collector.

11.(original) The process of claim 8, further comprising:
utilizing part of the buried layer as a collector; and
forming contacts to the base, emitter, collector, source, drain, and poly-Si
layer on the gate oxide.

12.(orlginal) The process of claim 8, further comprising forming wells of the second semiconductor material in the buried layer.

13-15.(cancelled)

16.(previously presented) A process for manufacturing a heterojunction bipolar transistor (HBT), comprising:

forming a collector of a first semiconductor,

forming a base of a second semiconductor; and

forming an emitter of a group III/VI semiconductor selected from the group consisting of GaS, GaSe, GaTe, InS, InSe, InTe, and TIS.

17-21.(cancelled)

22.(previously presented) A process for manufacturing a transistor, comprising:

forming a base;

forming a collector,

forming an emitter of a group III/VI semiconductor selected from the group consisting of GaS, GaSe, GaTe, InS, InSe, InTe, and TIS; and

forming an emitter contact coupled to the emitter.

23.(previously presented) The process of Claim 22, wherein forming a base comprises forming a base of a p-type semiconductor material and forming a collector comprises forming a collector of an n-type semiconductor material.

24.(previously presented) The process of Claim 22, wherein forming a base comprises forming a base of an n-type semiconductor and forming a collector comprises forming a collector of a p-type semiconductor and further comprising doping the group III/VI semiconductor to behave as a p-type semiconductor.